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Taxonomy & Inventories

Ants (Insecta, Hymenoptera, Formicidae) from the Floresta da Tijuca sector, Parque Nacional da Tijuca, Rio de Janeiro, Brazil

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Abstract

Background

Ants (Insecta, Hymenoptera, Formicidae) are social insects and one of the most abundant groups of animals. Their colonies are established in a wide range of habitats, such as in cavities in the ground, litter on the forest floor or in rocky cracks. Currently, there are approximately 15,000 valid species of ants, of which about 6,000 are recorded from the Neotropical Region. The Atlantic Forest is one of the biomes with the greatest biodiversity, showing a high degree of endemism. However, it has suffered severe impacts and is now reduced to a fraction of the original area. One of the most significant remnants of the Atlantic Forest is the Parque Nacional da Tijuca (PNT), a protected area located in the state of Rio de Janeiro, Brazil. There is limited knowledge about the myrmecofauna of the PNT, with most research efforts focused on the Serra da Carioca sector.

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New information

In the present study, we performed the first inventory of the mirmecofauna of the Floresta da Tijuca sector of the PNT, using pitfall traps and Winkler extractors in areas with three different degrees of preservation. In total, 80 species are recorded from Floresta da Tijuca, of which 18 are reported for the first time from this sector, 37 from the PNT, 10 from the State of Rio de Janeiro and one from the Atlantic Forest biome. These results increase the known diversity of ants of the PNT from 149 to 200 species. Furthermore, the known geographic distribution of *Hypoponera viri* (Santschi, 1923) is extended northwards, those of *Holcoponera mina* Brown, 1956 and *Neocerapachys neotropicus* Weber, 1939, southwards and *Brachymyrmex bruchi* Forel, 1912 and *Hypoponera parva* (Forel, 1909), eastwards. The most abundant species in our samples was *Holcoponera moelleri* (Forel, 1912), followed by *Pachycondyla striata* F. Smith, 1858, *Strumigenys denticulata* Mayr, 1887, *Hypoponera trigona* (Mayr, 1887), *Megalomyrmex goeldii* Forel, 1912 and *Hylomyrma reitteri* (Mayr, 1887). The primary forest area was the richest, followed by the disturbed and advanced restoration areas. The species richness was higher in the primary forest and advanced restoration areas during the dry season, while it was higher in the disturbed area during the rainy season.

Introduction

Ants (Insecta, Hymenoptera, Formicidae) are social insects and one of the most abundant and widely distributed groups of animals, being absent only from polar regions (Hölldobler and Wilson 1990). Ant colonies are established in a wide range of habitats, such as cavities in the ground, layers of branches and litter on the forest floor or in rocky cracks. In the canopy, they usually establish mutualistic associations with plants, offering protection against herbivory in exchange for shelter and/or food (Janicki et al. 2016, Guénard 2017). They represent a large portion of the terrestrial organism abundance in forests, where several environmental services are associated with their biology (Hölldobler and Wilson 1990, Elizalde et al. 2020).

Currently, there are approximately 15,000 valid species of ants, of which about 6000 have been recorded from the Neotropical Region (Kass et al. 2022, Bolton 2024). Brazil is especially rich in ants due to its continental dimensions and great diversity of biomes and ecosystems, which provide many different niches that are occupied by these insects (Silva et al. 2022). However, despite being in one of the most studied bioregions in the world, there are still many regions of the country that are poorly explored or even completely unexplored (Feitosa et al. 2022).

Located mainly within Brazil, the Atlantic Forest is considered a biodiversity hotspot, with high degrees of species richness and endemism (Wilson et al. 2021). Since the 16th century, this biome has been suffering impacts caused by the exploration of natural resources, forest fragmentation, land use for monocultures and the founding and expansion of cities (Rezende et al. 2018). The myrmecofauna of the Atlantic Forest has

been studied from different perspectives, such as in the use as a bioindicator (Ribas et al. 2012), population dynamics (Bihn et al. 2008) and provision of ecological services (Garcia et al. 2020), amongst others. Nonetheless, the local species richness might still be underestimated, mainly because many areas within this biome are difficult to access or have not been sufficiently sampled (Carlucci et al. 2021). Here, we contribute to reduce such knowledge gap by carrying out the first survey of the myrmecofauna of the Floresta da Tijuca sector, Parque Nacional da Tijuca, Rio de Janeiro, Brazil.

Materials and methods

Study area

The Parque Nacional da Tijuca (PNT) (22°55'–23°00' S, 043°11'–043°19' W) is an environmental protection area located in the Atlantic Forest biome and divided into four geographic sectors, namely Serra da Carioca, Pedra da Gávea and Pedra Bonita, Pretos Forros and Covanca and Floresta da Tijuca (Ministério do Meio Ambiente 2008). The PNT is one of the largest urban parks in the world, occupying 3953 hectares or 3.5% of the area of the Municipality of Rio de Janeiro, State of Rio de Janeiro, Brazil. The average annual temperature is 22°C and the average annual rainfall is 2250 mm (Miranda and Avelar 2021). The predominant vegetation is a typical tropical rainforest, characterised by large trees, palms, ferns, epiphytes and lianas (Freitas et al. 2006, Varassin et al. 2021). Since the colonisation by the Portuguese, the region suffered severe impacts due to logging and farming, leading to the removal of a large portion of the natural vegetation and the loss of biodiversity. Then, during the second half of the 19 th century, a reforestation process started, aiming to preserve the water supply for the City of Rio de Janeiro (Araujo and Avelar 2018). The establishment and regulation of the area as a national park happened in 1961 and, since then, it serves as a refuge and for the re-introduction of native plant and animal species (Ministério do Meio Ambiente 2008, Silva and Brandão 2020, Mittelman et al. 2021).

Sampling and analysis

Three regions in the Floresta da Tijuca sector of the PNT were selected (Fig. 1). According to the PNT management plan (Ministério do Meio Ambiente 2008), those regions are currently in three different levels of preservation, being classified as primary forest (PF), advanced restoration (ARS) and disturbed (DTBD). In each of them, two 180 m transects were established, with a distance of 50 m between them and an interval of 20 m between individual sampling points, totalling 240 samples. Collection was performed under SISBIO permit 78112-1, during the dry season (July 2021) and the rainy season (January 2022), using two techniques in each transect — 20 pitfall traps placed for 48 hours in the field and 20 samples of 1 m² of litter sorted using a Winkler extractor for 48 hours. These techniques complement each other, as they can sample the diversity of soil ants more representatively when combined (Agosti et al. 2000, Lopes et al. 2010, Orsolon-Souza et al. 2011 and Baccaro et al. 2015). The specimens collected were

preserved in 70% ethanol until they were dry mounted, identified and deposited in the Coleção Entomológica Instituto Oswaldo Cruz, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil.

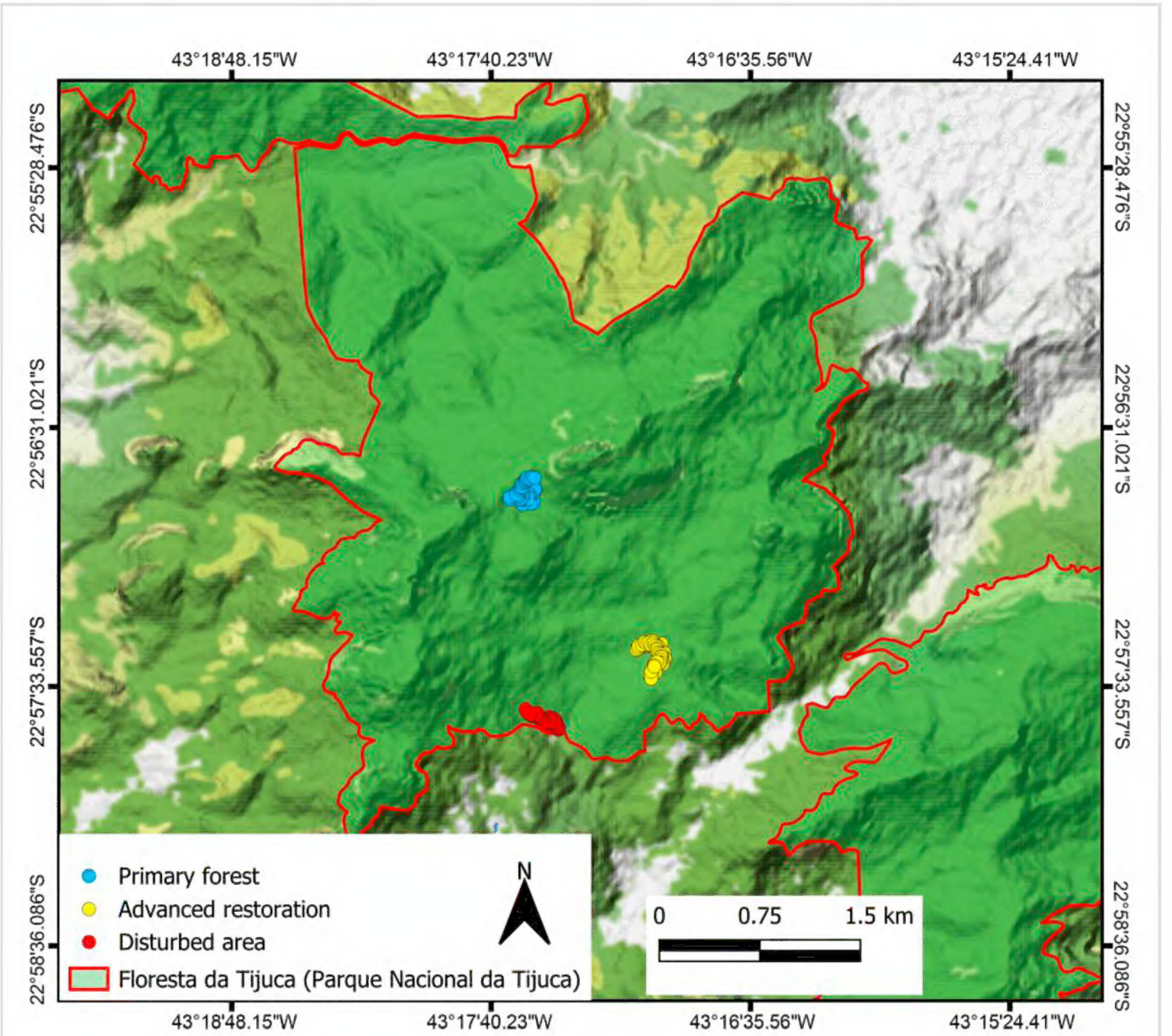

Figure 1. doi

Map of the Floresta da Tijuca sector, Parque Nacional da Tijuca, showing the sampling localities.

Specimen sorting and identification were performed under a Zeiss Stemi SV6 stereomicroscope by following Kempf (1962), Kempf (1966), Brandão (1990), Lattke (1997), LaPolla (2004), Longino and Fernández (2007), Wild (2007), Galvis and Fenández (2009), Mackay and Mackay (2010), Sosa-Calvo et al. (2010), Longino (2013), Baccaro et al. (2015), Borowiec (2016), Ješovnik and Schultz (2017), Feitosa and Prada-Achiardi (2019), Fernández et al. (2019), Ortiz-Sepulveda et al. (2019), Camacho et al. (2020), Forti et al. (2022) and Probst and Brandão (2022) The geographic distribution listed for each represented species is according to the Global Ant Biodiversity Informatics (GABI) (Janicki et al. 2016 and Guénard 2017) and the ATLANTIC ANTS (Silva et al. 2022) datasets

Ants from the Floresta da Tijuca sector, Parque Nacional da Tijuca

Family Formicidae Latreille, 1809

Subfamily Amblyoponinae Forel, 1893

Fulakora elongata (Santschi, 1912)

Material

a. taxonRank: species; genus: *Fulakora*; specificEpithet: *elongata*; scientificNameAuthorship: (Santschi, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.0S 43 17 28.1 W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 28.1 W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Fulakora elongata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 002D4458-4529-5D74-B603-8A8951099BA2

Distribution: Argentina, Brazil, Paraguay, Uruguay.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded from the Serra da Carioca sector by Veiga-Ferreira et al. (2010).

Subfamily Dolichoderinae Forel, 1878

Linepithema angulatum (Emery, 1894)

Material

a. taxonRank: species; genus: *Linepithema*; specificEpithet: *angulatum*; scientificNameAuthorship: (Emery, 1894); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 29.3S 43 16 58.1W; verbatimLatitude: 22 57 29.3S; verbatimLongitude: 43 16 58.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema angulatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D8D83C19-C430-52CB-BE21-8C1C34548598

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Panama, Peru, Venezuela. Introduced to northern Europe.

Notes: This is the first record for PNT. Previously recorded from Atlantic Forest fragments in the State of Rio de Janeiro by Gomes et al. (2013).

Linepithema micans (Forel, 1908)

Materials

a. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 30.5W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 30.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F2D4D5FB-A5AE-5493-84B3-C5BC62275091

b. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 04.1S 43 21 12.6W; verbatimLatitude: 22 56 04.1S; verbatimLongitude: 43 21 12.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 405FD860-4F2B-5CC2-B14F-F091E933E378

c. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 26.2S 43 16 55.2W; verbatimLatitude: 22 57 26.2S; verbatimLongitude: 43 16 55.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: FAD89592-F13D-5B6A-8157-0E3775F4B55B

Distribution: Argentina, Brazil, Costa Rica, Paraguay, Trinidad and Tobago, Uruguay. Exotic in Mexico.

Notes: Recorded from the PNT without details by Wild (2007).

Subfamily Dorylinae Leach, 1815

Labidus coecus (Latreille, 1802)

Materials

a. taxonRank: species; genus: *Labidus*; specificEpithet: *coecus*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 30.0W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 30.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus coecus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A43BB38C-8B4F-5C96-B09E-C5AA83C471AE

b. taxonRank: species; genus: *Labidus*; specificEpithet: *coecus*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.5S 43 17 29.8W; verbatimLatitude: 23 56 49.5S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus coecus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 463F7413-CB51-5793-BC9C-F3B726ECF0C4

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Uruguay, Venezuela.

Notes: This is the first record for the PNT. Recorded from the State of Rio de Janeiro without details by Kempf (1972) and Watkins (1976).

Labidus praedator (Smith, F., 1858)

Materials

a. taxonRank: species; genus: *Labidus*; specificEpithet: *praedator*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).;

verbatimCoordinates: 22 57 42.2S 43 17 24.3W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 24.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PCC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus praedator*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CDEBD54B-78EE-5102-8E74-FBCA309109E4

b. taxonRank: species; genus: *Labidus*; specificEpithet: *praedator*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.8S 43 17 25.1W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 25.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PCC116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus praedator*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E206997E-9144-5CDF-A61F-F4B4BA6F1D53

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, United States, Venezuela.

Notes: This is the first record for PNT. Previously recorded from the State of Rio de Janeiro without details by Kempf (1972) and Watkins (1976).

Neocerapachys neotropicus Weber, 1939

Material

a. taxonRank: species; genus: *Neocerapachys*; specificEpithet: *neotropicus*; scientificNameAuthorship: Weber, 1939; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 24.5W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 24.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC107; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neocerapachys neotropicus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A5E23B86-F721-5122-84EA-57D855A67249

Distribution: Brazil, Colombia, Costa Rica, Ecuador, Lesser Antilles, French Guiana, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the southernmost record of this species and also the first from the Atlantic Forest biome.

Subfamily Ectatomminae Emery, 1895

Ectatomma edentatum Roger, 1863

Materials

a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 22.6S 43 16 58.5W; verbatimLatitude: 22 57 22.6S; verbatimLongitude: 43 16 58.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70D094B0-827C-5C40-931F-4AE2B1209DAF

b. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 17 01.6W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 17 01.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3F72E7B1-81A9-5AA9-B3B7-E116D269893A

c. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.5S 43 17 00.9W; verbatimLatitude: 22 57 23.5S; verbatimLongitude: 43 17 00.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D9F3E944-159C-5296-AE61-85E5EB10DF53

d. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 17 01.5W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 17 01.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:

female; lifeStage: adult; recordNumber: PBC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D573356F-77D3-5BDD-B437-D4CBDC247E8F

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay, Venezuela.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded from the Serra da Carioca sector by Vargas et al. (2013) and Santos et al. (2019).

Ectatomma muticum Mayr, 1870

Materials

a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *muticum*; scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.6S 43 17 00.7W; verbatimLatitude: 22 57 23.6S; verbatimLongitude: 43 17 00.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PBC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma muticum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 527E3A9A-2810-57C2-911A-18AF312CB192

b. taxonRank: species; genus: *Ectatomma*; specificEpithet: *muticum*; scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.5S 43 16 56.7W; verbatimLatitude: 22 57 24.5S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma muticum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B81EBEED-468E-5CA6-9824-AAC60813DEAC

Distribution: Brazil, Colombia, Guyana, Paraguay. The record from Mexico is dubious.

Notes: This is the first record for State of Rio de Janeiro.

Ectatomma permagnum Forel, 1908

Material

a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *permagnum*; scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.0S 43 16 58.5W; verbatimLatitude: 22 57 23.0S; verbatimLongitude: 43 16 58.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma permagnum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4CBD3F9B-4C1B-58A3-857B-8A8039FBFE20

Distribution: Argentina, Bolivia, Brazil, Colombia, Paraguay. The record from Guyana is dubious.

Notes: This is the first record for the PNT. Kempf (1972) recorded this species from the City of Rio de Janeiro without details.

Gnamptogenys continua (Mayr, 1887)

Materials

a. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: AED2CC12-CC4C-5FFA-9306-17F1818A3086

b. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 27.2S 43 16 55.8W; verbatimLatitude: 22 57 27.2S; verbatimLongitude: 43 16 55.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*;

identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3DF7483E-CAED-551F-BB76-9D03D1B22B89

c. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 26.9W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 26.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCC112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A647FEEB-3DDA-5A3F-82B8-CD90766798F6

Distribution: Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Honduras, Jamaica, Mexico, Panama, Paraguay, Peru, Suriname, Venezuela.

Notes: This is the first record for the PNT. Silva and Brandão (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

Gnamptogenys horni (Santschi, 1929)

Materials

a. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *horni*; scientificNameAuthorship: (Santschi, 1929); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys horni*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 52805C1E-270C-5B30-A77D-2DE474F105A5

b. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *horni*; scientificNameAuthorship: (Santschi, 1929); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 43.6S 43 17 23.0W; verbatimLatitude: 22 57 43.6S; verbatimLongitude: 43 17 23.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys horni*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4667ED7B-E343-50A2-844D-2EE3C07559B9

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Lesser Antilles, Panama, Peru, Suriname, Trinidad and Tobago, Venezuela.

Notes: This is the first record for the PNT. Previously recorded by Orsolon-Souza et al. (2011) and Silva and Brandão (2014) from other protected areas in the State of Rio de Janeiro.

Heteroponera dentinodis (Mayr, 1887)

Material

a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dentinodis*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dentinodis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6C46D4DC-8D9C-5991-BBF3-3AAC5F3A301C

Distribution: Bolivia, French Guiana, Brazil. The record from Costa Rica needs verification.

Notes: Previously recorded from "Floresta da Tijuca" by Feitosa (2011).

Heteroponera dolo (Roger, 1860)

Materials

a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dolo*; scientificNameAuthorship: (Roger, 1860); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.1S 43 17 29.5W; verbatimLatitude: 22 56 43.1S; verbatimLongitude: 43 17 29.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WAC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dolo*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 42EBFD7A-8334-5056-8A96-9E033651BB73

b. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dolo*; scientificNameAuthorship: (Roger, 1860); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).;

verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S; verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dolo*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4E819A45-2214-5577-8AE4-9BEAC7C2D9A8

Distribution: Argentina, Brazil, Colombia, Paraguay, Uruguay.

Notes: This is the first record for the PNT. Kempf (1972) recorded this species from the City of Rio de Janeiro without details.

Heteroponera mayri Kempf, 1962

Materials

a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *mayri*; scientificNameAuthorship: Kempf, 1962; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 58D6CF36-4FEF-5083-A197-7AAC007D72E1

b. taxonRank: species; genus: *Heteroponera*; specificEpithet: *mayri*; scientificNameAuthorship: Kempf, 1962; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 32C3A15C-1CE7-5A82-9714-987E97CBDBE9

Distribution: Argentina, Brazil, Paraguay, Puerto Rico. Records from Colombia and Mexico need verification.

Notes: This is the first record for the PNT. Silva and Brandão (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

Holcoponera mina Brown, 1956

Material

a. taxonRank: species; genus: *Holcoponera*; specificEpithet: *mina*; scientificNameAuthorship: Brown, 1956; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera mina*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 72E1DF36-C242-529F-8C2C-B488922A965A

Distribution: Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Peru, Venezuela. The record from Mexico needs verification.

Notes: This is the first record for the State of Rio de Janeiro, which expands the known range southwards.

Holcoponera moelleri Forel, 1912

Materials

a. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.0S 43 17 29.1W; verbatimLatitude: 22 56 46.0S; verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: PAS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 674B4090-C7F0-5506-AF90-BE16201B4760

b. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.0S 43 17 31.3W; verbatimLatitude: 22 56 47.0S; verbatimLongitude: 43 17 31.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WAS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 943CC490-7448-54C1-B5A4-3FA422DC3DBC

c. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 22.7S 43 16 57.9W; verbatimLatitude: 22 57 22.7S; verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: PBC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 29D1E83A-EDBE-5619-A401-92C3A95EEF90

d. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 27.2S 43 16 55.8W; verbatimLatitude: 22 57 27.2S; verbatimLongitude: 43 16 55.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-22; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WBC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E99CF9C3-7662-5C28-B017-16CEAB827093

e. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.8S 43 17 23.5W; verbatimLatitude: 22 57 42.8S; verbatimLongitude: 43 17 23.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: PCC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 29BD3AC6-FA84-5D6E-BF45-139102FD746A

f. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 16; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 0199D8B1-3579-5F74-B688-F99E33C97DB9

Distribution: Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Venezuela

Notes: This is the first record for the PNT. Teixeira et al. (2019) recorded this species from another protected area in the State of Rio de Janeiro.

Typhlomyrmex lavra (Lattke, 2002)

Materials

a. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*; scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S; verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F19903AE-AF25-5BAA-95A0-942DC533B0BD

b. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*; scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 27.0S 43 16 55.4W; verbatimLatitude: 22 57 27.0S; verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C3C1CB57-46B2-5341-9CA0-FCF0D60B421B

c. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*; scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.0S 43 17 28.5W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 28.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 673414FC-4FB4-52F6-9C43-AFC00F2FF57A

Distribution: Endemic from Brazil.

Notes: This is the first record for the State of Rio de Janeiro.

Subfamily Formicinae Latreille, 1809

Acropyga decedens (Mayr, 1887)

Material

a. taxonRank: species; genus: *Acropyga*; specificEpithet: *decedens*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acropyga decedens*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 577459FA-EC42-50E8-BC81-C0B99F36B2B0

Distribution: Brazil, Ecuador, French Guiana.

Notes: This is the first record for the PNT. Previously recorded from the State of Rio de Janeiro without details by Weber (1944).

Brachymyrmex admotus Mayr, 1887

Materials

a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S; verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9590DE81-383E-5788-BEFE-14D210C8C72F

b. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.1S 43 16 57.9W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: PBS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2755422E-B6DF-5F79-A3D9-342DDEBB7DB3

c. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.0S 43 17 29.2W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 29.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9BF5B189-1E38-5E4F-AF8A-4D209260EF54

Distribution: Argentina, Brazil, French Guiana, Mexico, Panama, Paraguay, Uruguay, Venezuela.

Notes: This is the first record for the Floresta da Tijuca sector. Recorded from the Serra da Carioca sector by Santos et al. (2019).

Brachymyrmex australis Forel, 1901

Materials

a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*; scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 30.2W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 30.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C59CC7D8-25BC-5212-81A7-97DF6B7EF23F

b. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*; scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 27.8S 43 16 57.3W; verbatimLatitude: 22 57 27.8S; verbatimLongitude: 43 16 57.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WBS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7FF2A111-704D-52B6-AC1D-C697F0EE5823

c. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*; scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S; verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: BA46C87A-96B4-55BB-B2E2-B5FFA77FAE41

Distribution: Argentina, Bahamas, Brazil, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Guatemala, Guyana, Hispaniola, Mexico, Panama, Paraguay, Peru, Uruguay. Exotic in the Mascarene Islands. Introduced to Germany.

Notes: This is the first record for the PNT. Ortiz-Sepulveda et al. (2019) recorded this species from another protected area in the State of Rio de Janeiro state.

Brachymyrmex bruchi Forel, 1912

Material

a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *bruchi*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S; verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex bruchi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9E5DA292-D124-5267-9031-50FB3EB98270

Distribution: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guatemala, Hispaniola, Paraguay, United States, Uruguay.

Notes: This is the first record for State of Rio de Janeiro state, which extends the known range eastwards.

Brachymyrmex degener Emery, 1906

Material

a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *degener*; scientificNameAuthorship: Emery, 1906; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:

Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex degener*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2B620AF0-0C3F-508A-A08D-5FF59E5D8A6A

Distribution: Argentina, Brazil, Colombia, French Guiana, Guatemala, Guyana, Mexico, Panama, Paraguay, Trinidad and Tobago.

Notes: This is the first record for the State of Rio de Janeiro, which contributes to fill a gap between the States of Bahia to the north and São Paulo to the south.

Camponotus atriceps (Smith, F., 1858)

Materials

a. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.5S 43 17 29.8W; verbatimLatitude: 22 56 49.5S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4EEE1996-CF14-5860-BCBB-E9209390FDC4

b. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.6S 43 17 02.0W; verbatimLatitude: 22 57 24.6S; verbatimLongitude: 43 17 02.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-21; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E0B31290-09D7-5CEB-861B-4C32578B1B80

c. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.5S 43 17 23.8W; verbatimLatitude: 22 57 42.5S; verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2A87E737-0C87-5F75-AF9A-301C4CEB1927

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Uruguay, Venezuela. Introduced to Hawaii, the Netherlands, United Kingdom and Italy. The record from Cuba needs verification, whereas that from Hispaniola is dubious.

Notes: This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Parque Lage (a urban park), both in the Serra da Carioca sector.

Myrmelachista bettinae Forel, 1903

Material

a. taxonRank: species; genus: *Myrmelachista*; specificEpithet: *bettinae*; scientificNameAuthorship: Forel, 1903; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.3S 43 16 59.4W; verbatimLatitude: 22 57 23.3S; verbatimLongitude: 43 16 59.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Myrmelachista bettinae*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3BC1F4A8-5B56-5078-B8EB-802F6004780A

Distribution: Endemic from the State of Rio de Janeiro.

Notes: This is the first record for the Floresta da Tijuca sector. Kempf (1972) recorded it from the Serra da Carioca sector.

Nylanderia docilis (Forel, 1908)

Materials

a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *docilis*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.1S 43 16 59.0W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 59.0W;

verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 12; sex: female; lifeStage: adult; recordNumber: WBC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia docilis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C2421B45-534A-5390-8E4E-75EF9FC8F661

b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *docilis*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 22-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia docilis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3B3DB01F-2C70-562F-9C43-5B309426CB13

Distribution: Argentina, Brazil, Paraguay.

Notes: This is the first record for the PNT, which extends the known distribution eastwards.

Nylanderia fulva (Mayr, 1862)

Materials

a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *fulva*; scientificNameAuthorship: (Mayr, 1862); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.1S 43 17 29.5W; verbatimLatitude: 22 56 43.1S; verbatimLongitude: 43 17 29.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia fulva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2A94E967-60C7-54CD-8508-3BC7E7654C0A

b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *fulva*; scientificNameAuthorship: (Mayr, 1862); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.1S 43 16 59.0W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 59.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I.

R. S. Cordeiro; identificationID: *Nylanderia fulva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 51021DAA-0C74-55BB-9298-91D2FA81D215

Distribution: Argentina, Brazil, Bolivia, Paraguay, Uruguay. Exotic in northern Brazil, the Canary Islands, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Galápagos Islands, Guyana, Hispaniola, Jamaica, Lesser Antilles, Mexico, Puerto Rico, Suriname, Trinidad and Tobago, United States and Venezuela. Introduced in Canada and France.

Notes: This is the first record for the PNT. Kempf (1972) and Brandão (1991) recorded this species from the State of Rio de Janeiro without details.

Nylanderia goeldii (Forel, 1912)

Materials

a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *goeldii*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4DCCFCBE-1CB0-50FE-89DC-EEEA717ADEED

b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *goeldii*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70AECECB-40A6-57A3-BA9A-198E10FF1B0F

Distribution: Endemic from south-eastern Brazil.

Notes: This is the first record for the PNT. Previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.

Nylanderia guatemalensis (Forel, 1885)

Materials

a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *guatemalensis*; scientificNameAuthorship: (Forel, 1885); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S; verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia guatemalensis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 97098107-A66D-5809-8BDB-7B87B957FC2B

b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *guatemalensis*; scientificNameAuthorship: (Forel, 1885); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.7S 43 16 59.7W; verbatimLatitude: 22 57 23.7S; verbatimLongitude: 43 16 59.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: PBC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia guatemalensis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 747E7ACE-8B08-5E98-9623-D68E2DB83B11

Distribution: Belize, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela. Exotic in northern Mexico, south-eastern United States, Bahamas, Cocos Island, Cuba, Galápagos Islands, Hispaniola, Jamaica, Lesser Antilles and Trinidad and Tobago. Introduced to mid-western United States, Germany, Netherlands and the United Kingdom. Records from south-western United States and the State of Sonora (Mexico) need verification.

Notes: This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Reserva Florestal da Vista Chinesa, in the Serra da Carioca sector.

Nylanderia steinheili (Forel, 1893)

Materials

a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*; scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 775FE0BD-78E6-52AC-A43E-69AC2A6A2CF7

b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*; scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.4S 43 16 56.7W; verbatimLatitude: 22 57 24.4S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: WBS107; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F3A73076-3206-5B39-9611-D1FE155A3D81

c. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*; scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 941A9A40-276A-52DD-8B79-B8F3AAF3DFC9

Distribution: Brazil, Colombia, Costa Rica, French Guiana, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela. Exotic in Argentina, Bahamas, Cuba, Galápagos Islands, Hispianiola, Jamaica, Lesser Antilles, Seychelles and the United States. Introduced to Norway, United Kingdom and the Netherlands.

Notes: This is the first record for the PNT. Previously recorded by Kempf (1972) and Brandão (1991) from the State of Rio de Janeiro without details.

Subfamily Myrmicinae Lepeletier de Saint-Fargeau, 1835

Acanthognathus brevicornis Smith, 1944

Materials

a. taxonRank: species; genus: *Acanthognathus*; specificEpithet: *brevicornis*; scientificNameAuthorship: Smith, 1944; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);

verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acanthognathus brevicornis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 36B393FE-6EFB-50A4-9432-C574598F842B

b. taxonRank: species; genus: *Acanthognathus*; specificEpithet: *brevicornis*; scientificNameAuthorship: Smith, 1944; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acanthognathus brevicornis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 53C8A2B1-AC95-525E-B9D2-A1B49EBC4FDE

Distribution: Brazil, Colombia, Ecuador, French Guiana, Guyana, Panama, Peru.

Notes: This is the first record for the PNT. Silva and Brandão (2014) and Montine et al. (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

Acromyrmex brunneus (Forel, 1912)

Materials

a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *brunneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.5S 43 17 00.1W; verbatimLatitude: 22 57 23.5S; verbatimLongitude: 43 17 00.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex brunneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D44986DB-D220-57C8-83B3-4C687DE8D4E8

b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *brunneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex brunneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70B1A979-4199-59E1-89A7-CB778484EA9C

Distribution: Brazil, Paraguay.

Notes: Previously recorded from "Floresta da Tijuca" by Gonçalves (1961) and from the Serra da Carioca sector by Santos et al. (2019).

Acromyrmex molestans Santschi, 1925

Materials

a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.6S 43 17 30.1W; verbatimLatitude: 22 56 43.6S; verbatimLongitude: 43 17 30.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CE69AE08-CF7C-5F01-A4F7-E04E85DC7DD7

b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.5S 43 16 56.7W; verbatimLatitude: 22 57 24.5S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 445672E5-A794-5595-A3A5-2B9AD755AEF1

c. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.9S 43 17 24.0W; verbatimLatitude: 22 57 41.9S; verbatimLongitude: 43 17 24.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PCC114; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*;

identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6D42D8FA-6069-5F4C-9E18-5299BA8A2B72

Distribution: Endemic from Brazil.

Notes: This is the first record for the PNT. First reported from the State of Rio de Janeiro by Santschi (1937).

Acromyrmex subterraneus (Forel, 1912)

Materials

a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 25A7C37F-0039-5457-9379-C09329109724

b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 17 00.5W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 17 00.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PBC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F434B81B-43DA-54D4-8DA1-FA710299B16E

c. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.2S 43 17 24.3W; verbatimLatitude: 22 57 41.2S; verbatimLongitude: 43 17 24.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: PCC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 8E1DB942-30BD-5E2E-8F1D-861B5F8C665B

Distribution: Argentina, Bolivia, Brazil, Colombia, French Guiana, Paraguay, Peru, Venezuela.

Notes: This is the first record for the PNT. First record from the State of Rio de Janeiro by Gonçalves (1961).

Apterostigma ierense Weber, 1937

Material

a. taxonRank: species; genus: *Apterostigma*; specificEpithet: *ierense*; scientificNameAuthorship: Weber, 1937; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma ierense*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 05BD488F-BDAB-5C4A-B099-2B1F18CF71B5

Distribution: Bolivia, Brazil, Colombia, Ecuador, French Guiana, Panama, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the first record for the State of Rio de Janeiro, filling a gap between Bahia to the north and São Paulo to the south.

Apterostigma pilosum Mayr, 1865

Materials

a. taxonRank: species; genus: *Apterostigma*; specificEpithet: *pilosum*; scientificNameAuthorship: Mayr, 1865; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WAS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma pilosum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CFBA32E8-2BE8-584D-BF37-37AF4F9079B2

b. taxonRank: species; genus: *Apterostigma*; specificEpithet: *pilosum*; scientificNameAuthorship: Mayr, 1865; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.2S 43 16 57.7W; verbatimLatitude: 22 57 23.2S;

verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: PBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma pilosum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C4C00D05-4518-5EFC-BEEE-9B89B26C7926

c. taxonRank: species; genus: *Apterostigma*; specificEpithet: *pilosum*; scientificNameAuthorship: Mayr, 1865; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S; verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma pilosum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 77B1442F-3414-5A42-95D4-74743F5A8921

Distribution: Argentina, Belize, Brazil, Colombia, Costa Rica, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the first record for PNT. Previously recorded by Kempf (1972) and Brandão (1991) from the State of Rio de Janeiro without details.

Basiceros disciger (Mayr, 1887)

Material

a. taxonRank: species; genus: *Basiceros*; specificEpithet: *disciger*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Basiceros disciger*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B44371AF-FBC2-59F7-81F2-66048013B057

Distribution: Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru, Venezuela. The record from Costa Rica needs verification.

Notes: This is the first record for the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Reserva Florestal da Vista Chinesa, within the Serra da Carioca sector.

Cardiocondyla minutior Forel, 1899

Material

a. taxonRank: species; genus: *Cardiocondyla*; specificEpithet: *minutior*; scientificNameAuthorship: Forel, 1899; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 32.2W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 32.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cardiocondyla minutior*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C4D3254B-1CF7-5634-8B6E-786C6715E91E

Native status: Exotic (Brazil)

Distribution: Native in the Oriental Region (Andaman and Nicobar Islands, continental India, Nepal, Sri Lanka, Vietnam). Exotic in the Australian, Madagascan, Nearctic, Neotropical, Oceanian, Panamanian, Saharo-Arabian and Sino-Japanese Regions, including Brazil.

Notes: This is the first record for the State of Rio de Janeiro, filling a gap between Minas Gerais and Espírito Santo to the north and Santa Catarina to the south.

Carebara brevipilosa Fernández, 2004

Material

a. taxonRank: species; genus: *Carebara*; specificEpithet: *brevipilosa*; scientificNameAuthorship: Fernández, 2004; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Carebara brevipilosa*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F7C529EC-C5E0-5799-BB5C-7A26F3F04E02

Distribution: Argentina, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guyana, Honduras, Mexico, Nicaragua, Panama, Suriname, Venezuela.

Notes: This is the first record for PNT. This species was recorded by de Oliveira et al. (2018) from another protected area in the State of Rio de Janeiro.

Crematogaster montana Borgmeier, 1939

Material

a. taxonRank: species; genus: *Crematogaster*; specificEpithet: *montana*; scientificNameAuthorship: Borgmeier, 1939; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.1S 43 17 31.7W; verbatimLatitude: 22 56 48.1S; verbatimLongitude: 43 17 31.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Crematogaster montana*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: EDD0B456-3F7A-56C6-AE01-93F7C2CEB6F1

Distribution: Endemic from the State of Rio de Janeiro.

Notes: This is the first record for PNT. Previously known only from the Municipality of Petrópolis, located approximately 70 km north of Rio de Janeiro.

Crematogaster nigropilosa Mayr, 1870

Material

a. taxonRank: species; genus: *Crematogaster*; specificEpithet: *nigropilosa*; scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.8S 43 17 29.2W; verbatimLatitude: 22 57 40.8S; verbatimLongitude: 43 17 29.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Crematogaster nigropilosa*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1544B139-8F9C-5DC5-94C6-3DF538CB2725

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the first record for the Floresta da Tijuca sector. This species was recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

Cyphomyrmex minutus Mayr, 1862

Materials

a. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*; scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 31.2W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 31.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6F3E224A-F062-5823-8DD0-29B41338C71D

b. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*; scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F1F80378-A91E-5316-97B0-A88B2E1334B3

c. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*; scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 23.8W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 748FF94B-9E05-56F7-89C0-C070E256356F

Distribution: Argentina, Bahamas, Bolivia, Brazil, Colombia, Costa Rica, Cuba, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Jamaica, Lesser Antilles, Mexico, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, United States, Venezuela.

Notes: This is the first record for the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Reserva Florestal da Vista Chinesa, within the Serra da Carioca sector.

Cyphomyrmex rimosus (Spinola, 1851)

Materials

a. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*; scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.3S 43 17 30.3W; verbatimLatitude: 22 56 46.3S; verbatimLongitude: 43 17 30.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-19; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PAC101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 235A9FCF-95A8-53CF-A9B7-01810A750007

b. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*; scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 06DC9D8E-5887-501B-8FB7-F460C3566D27

c. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*; scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: EACE329D-5FD3-5920-B991-82CFB8BB8C18

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, Uruguay, Venezuela. Exotic in the Galápagos Islands and southeast and southwest United States. Introduced in Hawaii. Records from the States of Arizona, California and Michigan (United States) are dubious.

Notes: This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Parque Lage, within the Serra da Carioca sector.

Hylomyrma reitteri (Mayr, 1887)

Materials

a. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E9AE839C-A942-55EA-91B7-88123A3E9C4C

b. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 87A7A64C-7359-5B57-8C46-1AA835FA2ADC

c. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 10; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F8BE1B98-456B-53B6-94F6-3E3FE80207B3

Distribution: Argentina, Brazil, Colombia, Paraguay, Venezuela.

Notes: Kempf (1960) recorded this species from "Floresta da Tijuca" without details.

Lachnomyrmex plaumanni Borgmeier, 1957

Material

a. taxonRank: species; genus: *Lachnomyrmex*; specificEpithet: *plaumanni*; scientificNameAuthorship: Borgmeier, 1957; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Lachnomyrmex plaumanni*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 0ED888EB-36F7-55D0-B472-F1D1478B2258

Distribution: Argentina, Brazil. The record from the State of Pará (Brazil) is dubious, while those from Costa Rica need verification.

Notes: This is the first record for the PNT. This species was recorded by Feitosa and Brandão (2008) and Orsolon-Souza et al. (2011) from the Reserva Biológica do Tinguá, another protected area in the State of Rio de Janeiro.

Megalomyrmex goeldii Forel, 1912

Materials

a. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S; verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 57BA11A7-E51C-5E5D-B072-C5C127E2DA08

b. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 30.2S 43 16 57.17W; verbatimLatitude: 22 57 30.2S; verbatimLongitude: 43 16 57.17W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 20; sex: female; lifeStage: adult; recordNumber: WBS116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*;

identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4C1EE0B1-85CB-5EA8-911F-94898884BF38

c. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1F7C5AF3-A562-56BB-A97D-5486968838F3

Distribution: Endemic from Brazil.

Notes: Brandão (1990) recorded this species from "Floresta da Tijuca" without details.

Mycetomoellerius oetkeri (Forel, 1908)

Material

a. taxonRank: species; genus: *Mycetomoellerius*; specificEpithet: *oetkeri*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 26.2S 43 16 55.2W; verbatimLatitude: 22 57 26.2S; verbatimLongitude: 43 16 55.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: PBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Mycetomoellerius oetkeri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CF335390-014A-521F-BE45-EB20FC102C21

Distribution: Endemic from Brazil.

Notes: This is the first record for the PNT. This species was recorded by Kempf (1972) from the State of Rio de Janeiro without details.

Octostruma iheringi (Emery, 1888)

Material

a. taxonRank: species; genus: *Octostruma*; specificEpithet: *iheringi*; scientificNameAuthorship: (Emery, 1888); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.5S 43 17 29.9W; verbatimLatitude: 22 57 40.5S; verbatimLongitude: 43 17 29.9W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma iheringi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B0C4731D-4CD6-59AD-B72C-0C1F80F22E9E

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Jamaica, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela. Records from the United States are dubious.

Notes: Brown and Kempf (1960) recorded this species from the "Floresta da Tijuca" without details.

Octostruma rugifera (Mayr, 1887)

Materials

a. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 98B9AAA0-2B7E-5626-BDA4-142B65DC5354

b. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3BEF370A-42F7-5089-A38E-A2CEBF60F832

c. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 24.5W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 24.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 13; sex: female; lifeStage: adult; recordNumber: PCS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9F148668-130E-5FBE-A669-EAA2AE1FEBB9

Distribution: Argentina, Brazil, Colombia, Panama, Paraguay, San Andrés, Providencia and Santa Catalina, Venezuela.

Notes: Brown and Kempf (1960) recorded this species from "Floresta da Tijuca" without details.

Oxyepoecus myops Albuquerque & Brandão, 2009

Material

a. taxonRank: species; genus: *Oxyepoecus*; specificEpithet: *myops*; scientificNameAuthorship: Albuquerque & Brandão, 2009; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 32.2W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 32.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Oxyepoecus myops*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3AA3134E-C79F-5FB8-8B46-0E9F9618D102

Distribution: Endemic from Brazil.

Notes: This is the first record for PNT. This species was recorded by Albuquerque and Brandão (2009) and Lasmar et al. (2020) from other protected areas in the State of Rio de Janeiro, such as the Parque Nacional da Serra dos Órgãos and the Reserva Biológica do Tinguá.

Pheidole tijucana Borgmeier, 1927

Materials

a. taxonRank: species; genus: *Pheidole*; specificEpithet: *tijucana*; scientificNameAuthorship: Borgmeier, 1927; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 30.0W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 30.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pheidole tijucana*; identifiedBy: M.

M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A3A8C96B-4D1D-5016-B719-287BCE1862F4

b. taxonRank: species; genus: *Pheidole*; specificEpithet: *tijucana*; scientificNameAuthorship: Borgmeier, 1927; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 28.5S 43 16 57.5W; verbatimLatitude: 22 57 28.5S; verbatimLongitude: 43 16 57.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pheidole tijucana*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1B3A5A8E-8A1B-568E-8DF6-4821C346B91F

Distribution: Endemic from eastern Brazil.

Notes: "Floresta da Tijuca" is the type locallity provided by Borgmeier (1927).

Rogeria lacertosa Kempf, 1963

Material

a. taxonRank: species; genus: *Rogeria*; specificEpithet: *lacertosa*; scientificNameAuthorship: Kempf, 1963; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.3S 43 17 29.1W; verbatimLatitude: 22 56 49.3S; verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Rogeria lacertosa*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 8DC9FE27-08EE-51AB-B8D7-7835D7CAB285

Distribution: Endemic from eastern Brazil.

Notes: This is the first record for State of Rio de Janeiro, contributing to fill a gap between Bahia to the north and Rio Grande do Sul to the south.

Sericomyrmex bondari Weber, 1938

Material

a. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *bondari*; scientificNameAuthorship: Weber, 1938; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.7S 43 16 59.4W; verbatimLatitude: 22 57 23.7S; verbatimLongitude: 43 16 59.4W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex bondari*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C2803CAA-3EE9-56C1-B171-F15C22F5CE81

Distribution: Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Peru, Suriname, Venezuela.

Notes: This is the first record for PNT. Klingenberg and Brandão (2005) recorded this species from the State of Rio de Janeiro without details.

Sericomyrmex saussurei Emery, 1894

Materials

a. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3DC14678-E720-50FD-B55B-1EEE65A8B7AA

b. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 30.0S 43 16 58.3W; verbatimLatitude: 22 57 30.0S; verbatimLongitude: 43 16 58.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WBS120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6AD9B191-70BD-5D68-942C-0337128E2E1F

c. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes,

J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6126D637-A6BC-5E06-A338-C7B3753008E9

Distribution: Bolivia, Brazil, Colombia, Ecuador, Guyana, Lesser Antilles, Peru, Trinidad and Tobago, Venezuela. Records from Mexico need verification.

Notes: This is the first record for PNT. Ješovnik and Schultz (2017) recorded this species from the Reserva Biológica do Tinguá and the Parque Nacional da Serra dos Órgãos, which are protected areas in the State of Rio de Janeiro.

Strumigenys cosmostela Kempf, 1975

Material

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *cosmostela*; scientificNameAuthorship: Kempf, 1975; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys cosmostela*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1F70D215-63C8-5700-8656-F86F42DA7857

Distribution: Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Peru, Suriname, Venezuela.

Notes: This is the first record for PNT. This species was recorded by Silva and Brandão (2014) from the Parque Estadual do Desengano, another protected area in the State of Rio de Janeiro.

Strumigenys crassicornis Mayr, 1887

Material

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *crassicornis*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S; verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys crassicornis*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 21042D28-B588-530E-854D-9EB340221E0B

Distribution: Argentina, Brazil, Colombia, French Guiana, Guyana, Lesser Antilles, Paraguay, Suriname, Trinidad and Tobago, Venezuela.

Notes: Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

Strumigenys denticulata Mayr, 1887

Materials

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S; verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6B57A8F8-8D68-5F59-A686-B75A2AEB0BAE

b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 24; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 67AD10AD-BF5F-5352-81EC-7721A5FD19BB

c. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7A27B2FD-EAB2-52F1-BBBF-CB00B6193411

Distribution: Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela

Notes: Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

Strumigenys elongata Roger, 1863

Materials

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *elongata*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 30.6S 43 16 58.1W; verbatimLatitude: 22 57 30.6S; verbatimLongitude: 43 16 58.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys elongata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: DF96EB89-E9A9-5C22-A01D-F73AD67320AD

b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *elongata*; scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 26.9W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 26.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCC112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys elongata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: FDC26040-6211-5D3D-A6C0-D35D61005B0A

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, San Andrés, Providencia and Santa Catalina, Suriname, Trinidad and Tobago, Venezuela.

Notes: Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

Strumigenys hindenburgi Forel, 1915

Materials

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*; scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:

Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.9S 43 17 31.3W; verbatimLatitude: 22 56 47.9S; verbatimLongitude: 43 17 31.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 49DCA430-4092-5731-BE24-D1DC0DCAAE99

b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*; scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.4S 43 16 56.7W; verbatimLatitude: 22 57 24.4S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS107; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 09614EF5-50C2-5527-834B-B4E2A161078E

c. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*; scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 66FBE3E5-A777-508C-B11B-1BC5C079C98D

Distribution: Argentina, Brazil, Colombia, Paraguay.

Notes: This is the first record for PNT. This species was recorded by Bolton (2000) from the State of Rio de Janeiro without details.

Strumigenys subedentata Mayr, 1887

Material

a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *subedentata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 25.6W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 25.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys subedentata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2E04D618-1F19-5CEE-AD20-3CC0BD4696E5

Distribution: Argentina, Belize, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela.

Notes: Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

Paratrachymyrmex cornetzi (Forel, 1912)

Material

a. taxonRank: species; genus: *Paratrachymyrmex*; specificEpithet: *cornetzi*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 37.0S 43 16 55.4W; verbatimLatitude: 22 57 37.0S; verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Paratrachymyrmex cornetzi*; identifiedBy: A. J. Mayhé-Nunes; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: FAF514D9-DAA5-5B37-814B-EBC9BA4FA833

Distribution: Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Peru, Suriname, Trinidad and Tobago, Venezuela.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden, within the Serra da Carioca sector.

Wasmannia affinis Santschi, 1929

Materials

a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 44.6S 43 17 32.1W; verbatimLatitude: 22 56 44.6S; verbatimLongitude: 43 17 32.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 5; sex:

female; lifeStage: adult; recordNumber: WAC113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6DC94746-716F-5348-A943-39C1E8A590C0

b. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 03469F9D-D075-5D24-B823-C1868FADD45E

c. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 42.4S 43 17 23.8W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B6BA0D36-0F76-5117-9F8E-F14B88BC70EF

Distribution: Endemic from eastern Brazil.

Notes: This is the first record for PNT. Previously recorded by Lasmar et al. (2020) from another protected area in the State of Rio de Janeiro.

Wasmannia auropunctata (Roger, 1863)

Material

a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *auropunctata*; scientificNameAuthorship: (Roger, 1863); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.9S 43 17 23.3W; verbatimLatitude: 22 57 41.9S; verbatimLongitude: 43 17 23.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: PCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia auropunctata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C1D2B3F1-D9E7-5967-94FF-BBDF8822C86C

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Nicaragua, Panama, Paraguay, Peru, Suriname, Uruguay, Venezuela. Introduced to Canada, midwest United States, Germany, United Kingdom, the Netherlands and New Zealand. Exotic in portions of the Afrotropical, Australian, Nearctic, Neotropical, Oceanian, Oriental, Palearctic, Panamanian, Saharo-Arabian and Sino-Japanese Regions. Records from the State of Arizona (United States), South Africa, Keeling Islands, Indonesia, New Guinea and Cook Islands need verification. Records from continental Italy and Tuvalu are dubious.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Reserva Florestal da Vista Chinesa, both in the Serra da Carioca sector.

Wasmannia lutzi Forel, 1908

Materials

a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *lutzi*; scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 35.4W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 35.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia lutzi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: EB564B31-1F53-51EC-B300-84961122D0C0

b. taxonRank: species; genus: *Wasmannia*; specificEpithet: *lutzi*; scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia lutzi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 58CA40CB-034D-5BE8-B5C9-5FFDEE099605

Distribution: Brazil, Paraguay.

Notes: This is the first record for the PNT. Previously recorded by Orsolon-Souza et al. (2011) and Silva and Brandão (2014) from other protected areas in the state of Rio de Janeiro.

Subfamily Pseudomyrmicinae Smith, M.R., 1952

Pseudomyrmex schuppi (Forel, 1901)

Material

a. taxonRank: species; genus: *Pseudomyrmex*; specificEpithet: *schuppi*; scientificNameAuthorship: (Forel, 1901); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 2.0S 43 16 59.5W; verbatimLatitude: 22 57 2.0S; verbatimLongitude: 43 16 59.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-20; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pseudomyrmex schuppi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4396E676-7171-5E49-A377-6B3B77123D04

Distribution: Argentina, Brazil, Paraguay, Uruguay.

Notes: This is the first record for Floresta da Tijuca sector. Ward (1989) and Santos et al. (2019) recorded this species from the Corcovado Mountain, in the Serra da Carioca sector.

Subfamily Ponerinae Lepeletier de Saint-Fargeau, 1835

Anochetus mayri Emery, 1884

Materials

a. taxonRank: species; genus: *Anochetus*; specificEpithet: *mayri*; scientificNameAuthorship: Emery, 1884; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Anochetus mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2FF51B11-A98D-53B8-A532-DB1F6DD08229

b. taxonRank: species; genus: *Anochetus*; specificEpithet: *mayri*; scientificNameAuthorship: Emery, 1884; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84;

samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Anochetus mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A1F78F9B-C980-54DD-8D3D-B0D67E8CBE54

Distribution: Argentina, Bahamas, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Jamaica, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, Uruguay, Venezuela. Exotic in southeast United States. Introduced to the United Kingdom and Denmark.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

Hypoponera distinguenda (Emery, 1890)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *distinguenda*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera distinguenda*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: DBBF66B6-0158-5AEA-A8BC-324694D90CDA

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *distinguenda*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera distinguenda*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7B2AAFA4-A612-5314-978C-5059EAB88591

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the first record for PNT. This species was previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.

Hypoponera foreli (Mayr, 1887)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 44.0S 43 17 31.2W; verbatimLatitude: 22 56 44.0S; verbatimLongitude: 43 17 31.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9BD524D6-8DEA-5416-826C-6EF65DE3BBF6

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 26.8S 43 16 55.5W; verbatimLatitude: 22 57 26.8S; verbatimLongitude: 43 16 55.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B6145AE8-05ED-58E7-A3F4-82BB0FA42CBA

c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B31B3F4C-3407-5028-ACE3-15B3C6895434

Distribution: Argentina, Bolivia, Brazil, Costa Rica, Ecuador, Paraguay, Peru, Venezuela.

Notes: This is the first record for Floresta da Tijuca sector. Previously recorded by Santos et al. (2019) from the Serra da Carioca sector.

Hypoponera leveillei (Emery, 1890)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *leveillei*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 35.4W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 35.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera leveillei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C8FAAEE9-FF61-53DD-8B5E-DEE772BB5E26

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *leveillei*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.7S 43 17 24.7W; verbatimLatitude: 22 57 41.7S; verbatimLongitude: 43 17 24.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera leveillei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 75D998F4-5A2F-5757-8D0E-E8734FDBABF8

Distribution: Bolivia, Brazil, Panama, Venezuela.

Notes: This is the first record for PNT. Previously recorded by Mackay and Mackay (2010) from the State of Rio de Janeiro without details.

Hypoponera parva (Forel, 1909)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*; scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.3S 43 17 29.1W; verbatimLatitude: 22 56 49.3S; verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 12; sex: female; lifeStage: adult; recordNumber: WAS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F25DF1A7-52B3-55EF-9C99-98325BBCCCE7

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*; scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.8S 43 26 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 26 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 8735219A-9F11-574E-B761-04D3A29EBDD2

c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*; scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 82406CC3-A89B-5B0A-B5DD-7BCCF0B47E35

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, United States, Trinidad and Tobago, Venezuela.

Notes: This is the first record for the State of Rio de Janeiro, which extends the known distribution eastwards.

Hypoponera trigona (Mayr, 1887)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 18; sex: female; lifeStage: adult; recordNumber: WAC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 193B7721-DD2A-535D-9AB9-4E4B6A62E795

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;

countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F8480DA7-FF47-562E-95E0-AF84C11E7C16

c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.4S 43 17 28.1W; verbatimLatitude: 22 57 40.4S; verbatimLongitude: 43 17 28.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WCS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 40B5BCC3-60C1-5A7E-828A-5AF81C7152DF

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Mexico, Panama, Peru, Paraguay. Exotic in the Easter Island. Records from Bahamas, Cuba, Lesser Antilles and the United States need verification. Records from Juan Fernandez Islands and Society Islands are dubious.

Notes: This species was recorded by Kempf (1962) from "Floresta da Tijuca" without details.

Hypoponera viri (Santschi, 1923)

Materials

a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship: (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 767F8FCB-6985-5E6D-B168-425A99053566

b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship: (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca,

Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 30.0S 43 16 58.3W; verbatimLatitude: 22 57 30.0S; verbatimLongitude: 43 16 58.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 1; day: 17-20; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3EE4491A-8290-5004-BCD3-3B33DE164F27

c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship: (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.5S 43 17 29.9W; verbatimLatitude: 22 57 40.5S; verbatimLongitude: 43 17 29.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F71A1F37-ED2C-56C0-9215-0E61A9F9C68B

Distribution: Endemic from eastern Brazil.

Notes: This is the first record for the State of Rio de Janeiro, which extends the known distribution northwards.

Leptogenys luederwaldti Forel, 1913

Materials

a. taxonRank: species; genus: *Leptogenys*; specificEpithet: *luederwaldti*; scientificNameAuthorship: Forel, 1913; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.2S 43 17 30.3W; verbatimLatitude: 22 56 47.2S; verbatimLongitude: 43 17 30.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Leptogenys luederwaldti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 545FF66F-0FD6-5C80-B3D6-181773D01F28

b. taxonRank: species; genus: *Leptogenys*; specificEpithet: *luederwaldti*; scientificNameAuthorship: Forel, 1913; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.1S 43 17 24.7W; verbatimLatitude: 22 57 42.1S; verbatimLongitude: 43 17 24.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 23-25;

verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: PCC105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Leptogenys luederwaldti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 084EFE36-A705-5993-8E08-772B6722AA64

Distribution: Endemic from eastern Brazil.

Notes: This is the first record for the PNT. This species was previously recorded by Kempf (1972) and Lattke (2011) from the Municipality of Petrópolis, located approximately 70 km north of Rio de Janeiro.

Neoponera verenae (Forel, 1922)

Materials

a. taxonRank: species; genus: *Neoponera*; specificEpithet: *verenae*; scientificNameAuthorship: (Forel, 1922); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 42.6S 43 17 23.8W; verbatimLatitude: 22 57 42.6S; verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PCC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neoponera verenae*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 26DCF324-DA07-5004-BD1B-DCA65B427DAF

b. taxonRank: species; genus: *Neoponera*; specificEpithet: *verenae*; scientificNameAuthorship: (Forel, 1922); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 23.1S 43 16 57.9W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 23-25; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: PBS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neoponera verenae*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 57818E70-E847-5471-A32E-0F85B1726E98

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Venezuela.

Notes: This is the first record for the PNT. Previously recorded by Apolinário et al. (2019) from the State of Rio de Janeiro.

Odontomachus affinis Guérin-Méneville, 1844

Materials

a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*; scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C8F33033-D07D-57CE-B116-7DE2FBCFA76A

b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*; scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: PBC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 85FA713A-26DE-5C50-B9DE-53DDDDF6E78C

c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*; scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: WCC017; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 20A12A2B-0A12-5E5E-A0E6-EB286906CC12

Distribution: Brazil, Colombia, Guyana.

Notes: This is the first record for the PNT. Previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.

Odontomachus brunneus (Patton, 1894)

Materials

a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *brunneus*; scientificNameAuthorship: (Patton, 1894); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S; verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus brunneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 87D958DE-D8E7-5FEE-87A7-D0634FCCF44B

b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *brunneus*; scientificNameAuthorship: (Patton, 1894); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S; verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus brunneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1898AB55-379C-50BE-8225-6B937B47534C

Distribution: Mexico, United States. Introduced to the Netherlands. Most existing records throughout the Neotropical Region need verification.

Notes: This is the first record from the PNT. Previously recorded by Silva and Brandão (2014) from other protected areas in the State of Rio de Janeiro.

Odontomachus chelifer (Latreille, 1802)

Materials

a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CA07126C-95A0-5516-B232-CE6E6D8E1221

b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PBS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: AE736F2E-8C7F-55D9-896B-0DAC507C75DD

c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S; verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70F43E70-E844-5BAA-AB6F-3938F90AEA9A

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela.

Notes: This is the first record from the Floresta da Tijuca sector. This species was recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

Odontomachus meinerti Forel, 1905

Materials

a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*; scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC114; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*;

identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 67046DA2-8D2E-5251-9BE6-6BD2C1CE3E7F

b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*; scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: WBS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D2330F84-4B69-5835-B558-4079DB4DEB6F

c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*; scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 23.2S 43 16 57.7W; verbatimLatitude: 22 57 23.2S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 108BC928-4BED-510C-9898-843BD16CA1BD

Distribution: Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

Notes: This is the first record from the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Serra da Carioca sector.

Pachycondyla harpax (Fabricius, 1804)

Materials

a. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*; scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 27.0S 43 16 55.4W; verbatimLatitude: 22 57 27.0S; verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAS202; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D0556847-A556-5E03-9FD4-AB546ABBDB0B

b. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*; scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 40.0S 43 17 28.5W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 28.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E175E677-7C91-58B0-9D61-55DBC7D9CA75

c. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*; scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: PCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2EE6E05B-180D-5760-BB18-92A5E9B89A3B

Distribution: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Venezuela. Exotic in Jamaica, Lesser Antilles and the State of Georgia (United States).

Notes: This is the first record from the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

Pachycondyla striata Smith, F., 1858

Materials

a. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*; scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 2.0S 43 16 59.5W; verbatimLatitude: 22 57 2.0S; verbatimLongitude: 43 16 59.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 19; sex: female; lifeStage: adult; recordNumber: PAC101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 52D1C397-506B-5E86-BDA3-46A44C87E094

b. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*; scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-20; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 13; sex: female; lifeStage: adult; recordNumber: PBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: FA31CA90-3DF0-59A4-A5DF-D89F4B6766D3

c. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*; scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 10; sex: female; lifeStage: adult; recordNumber: PCS110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 94188DEB-7276-5EBD-9F6A-47C1C71C0D06

Distribution: Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Panama, Paraguay, Peru, Uruguay, Venezuela.

Notes: This is the first record from the PNT. Previously recorded by Kempf (1960), Freitas et al. (2006), Salinas (2010) and Mackay and Mackay (2010) from the State of Rio de Janeiro without details.

Subfamily Proceratiinae Emery, 1895

Discothyrea neotropica Bruch, 1919

Materials

a. taxonRank: species; genus: *Discothyrea*; specificEpithet: *neotropica*; scientificNameAuthorship: Bruch, 1919; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Discothyrea neotropica*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A0DA1401-B5CB-587D-BEDA-B67A5CE898E9

b. taxonRank: species; genus: *Discothyrea*; specificEpithet: *neotropica*; scientificNameAuthorship: Bruch, 1919; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 27.8S 43 16 57.3W; verbatimLatitude: 22 57 27.8S; verbatimLongitude: 43 16 57.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Discothyrea neotropica*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 83A6D77F-F9E7-5F08-88F9-F5BD64127EF0

Distribution: Argentina, Brazil, Paraguay. Records from Venezuela need verification.

Notes: New species record for Floresta da Tijuca. This species was reported by Kempf (1972) from Rio de Janeiro, but its locality was not described.

Analysis

We sorted 3,095 specimens of ants, identified as 80 species belonging to eight subfamilies (Table 1). The area with the highest species richness was the PF zone with 54 species, followed by DTBD and ARS zones with 48 and 47 species, respectively. During the dry season, ARS was the area with the greatest richness, totalling 40 species. In the rainy season, however, the highest richness was found in the DTBD zone (Fig. 2).

Table 1.

Frequency (number of positive samples per area, regardless of the collecting method) of ant species collected in the Floresta da Tijuca sector, Parque Nacional da Tijuca.

Subfamily, species	**Sampling areas**			
	Primary Forest	**Advanced Restoration**	**Disturbed**	**Total**
Amblyoponinae				
Fulakora elongata (Santschi, 1912)	-	-	1	1
Dolichoderinae				
Linepithema angulatum (Emery, 1894)	-	1	-	1
Linepithema micans (Forel, 1908)	2	1	-	3
Dorylinae				
Labidus coecus (Latreille, 1802)	2	-	-	2
Labidus praedator (Smith, F., 1858)	-	-	6	6

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
Neocerapachys neotropicus Weber, 1939	-	-	1	1
Ectatomminae				
Ectatomma edentatum Roger, 1863	-	4	-	4
Ectatomma muticum Mayr, 1870	-	2	-	2
Ectatomma permagnum Forel, 1908	-	1	-	1
Gnamptogenys continua (Mayr, 1887)	2	-	1	3
Gnamptogenys horni (Santschi, 1929)	2	-	1	3
Heteroponera dentinodis (Mayr, 1887)	1	-	-	1
Heteroponera dolo (Roger, 1860)	7	-	1	8
Heteroponera mayri Kempf, 1962	2	1	-	3
Holcoponera mina Brown, 1956	2	-	-	2
Holcoponera moelleri (Forel, 1912)	14	17	23	54
Typhlomyrmex lavra (Lattke, 2002)	1	2	1	4
Formicinae				
Acropyga decedens (Mayr, 1887)	1	-	-	1
Brachymyrmex admotus Mayr, 1887	6	3	-	9
Brachymyrmex australis Forel, 1901	4	5	1	10
Brachymyrmex bruchi Forel, 1912	1	-	-	1
Brachymyrmex degener Emery, 1906	1	-	-	1
Camponotus atriceps (Smith, F., 1858)	4	1	2	7
Myrmelachista bettinae Forel, 1903	-	1	-	1
Nylanderia docilis (Forel, 1908)	-	2	8	10
Nylanderia fulva (Mayr, 1862)	-	1	-	1
Nylanderia goeldii (Forel, 1912)	1	2	-	3
Nylanderia guatemalensis (Forel, 1885)	1	2	-	3
Nylanderia steinheili (Forel, 1893)	1	5	1	7
Myrmicinae				
Acanthognathus brevicornis Smith, 1944	4	-	9	13
Acromyrmex brunneus (Forel, 1912)	-	-	4	4

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
Acromyrmex molestans Santschi, 1925	-	-	1	1
Acromyrmex subterraneus (Forel, 1893)	1	1	4	6
Apterostigma ierense Weber, 1937	-	-	1	1
Apterostigma pilosum Mayr, 1865	4	-	2	6
Basiceros disciger (Mayr, 1887)	2	-	-	2
Cardiocondyla minutior Forel, 1899	1	-	-	1
Carebara brevipilosa Fernández, 2004	-	2	-	2
Crematogaster montana Borgmeier, 1939	1	-	-	1
Crematogaster nigropilosa Mayr, 1870	-	-	1	1
Cyphomyrmex minutus Mayr, 1862	1	2	4	7
Cyphomyrmex rimosus (Spinola, 1851)	3	4	10	17
Hylomyrma reitteri (Mayr, 1887)	11	5	9	25
Lachnomyrmex plaumanni Borgmeier, 1957	1	-	-	1
Megalomyrmex goeldii Forel, 1912	6	13	12	31
Mycetomoellerius oetkeri (Forel, 1908)	-	5	-	5
Octostruma iheringi (Emery, 1888)	-	-	1	1
Octostruma rugifera (Mayr, 1887)	4	5	12	21
Oxyepoecus myops Albuquerque & Brandão, 2009	1	-	-	1
Pheidole tijucana Borgmeier, 1927	2	-	-	2
Rogeria lacertosa Kempf, 1963	2	-	-	2
Sericomyrmex bondari Weber, 1938	-	2	1	3
Sericomyrmex saussurei Emery, 1894	1	8	6	15
Strumigenys cosmostela Kempf, 1975	-	-	1	1
Strumigenys crassicornis Mayr, 1887	2	-	-	2
Strumigenys denticulata Mayr, 1887	7	15	13	35
Strumigenys elongata Roger, 1863	-	1	1	2
Strumigenys hindenburgi Forel, 1915	1	1	1	3
Strumigenys subedentata Mayr, 1887	-	-	1	1
Paratrachymyrmex cornetzi (Forel, 1912)	-	2	-	2

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
Wasmannia affinis Santschi, 1929	3	10	1	14
Wasmannia auropunctata (Roger, 1863)	-	-	15	15
Wasmannia lutzi Forel, 1908	3	4	-	7
Pseudomyrmicinae				
Pseudomyrmex schuppi (Forel, 1901)	-	1	-	1
Ponerinae				
Anochetus mayri Emery, 1884	3	7	-	10
Hypoponera distinguenda (Emery, 1890)	1	0	2	3
Hypoponera foreli (Mayr, 1887)	12	3	9	24
Hypoponera leveillei (Emery, 1890)	2	-	1	3
Hypoponera parva (Forel, 1909)	12	6	4	22
Hypoponera trigona (Mayr, 1887)	16	3	12	31
Hypoponera viri (Santschi, 1923)	10	4	6	20
Leptogenys luederwaldti Forel, 1913	2	-	4	6
Neoponera verenae (Forel, 1922)	-	6	1	7
Odontomachus affinis Guérin-Méneville, 1844	2	1	2	5
Odontomachus brunneus (Patton, 1894)	0	1	1	2
Odontomachus chelifer (Latreille, 1802)	2	3	2	7
Odontomachus meinerti Forel, 1905	1	5	2	8
Pachycondyla harpax (Fabricius, 1804)	2	2	15	19
Pachycondyla striata Smith, F., 1858	19	13	10	42
Proceratiinae				
Discothyrea neotropica Bruch, 1919	4	1	-	5

The most frequent species across all three sampled areas was *Holcoponera moelleri*, with relative frequencies of 17.5% in PF, 21% in ARS and 28.7% in DTBD. Other species with high relative frequency in the PF area include *Pachycondyla striata* (23.7%), *Hypoponera trigona* (20%) and *Hypoponera foreli* (15%). In the ARS area, the most frequent species were *Strumigenys denticulata* (18.7%), *Megalomyrmex goeldii* (16.2%) and *P. striata* (16.2%), while *Pachycondyla harpax* (18.7%), *Wasmannia auropunctata* (18.7%) and *S. denticulata* (16.2%) were more frequent in the DTBD zone.

Our results also increase the number of ant species recorded from the PNT from 149 to 200, while the known richness of the Floresta da Tijuca sector is expanded from 31 to 50. Furthermore, 10 species are recorded for the first time from the State of Rio de Janeiro and one from the Atlantic Forest biome (see notes in the species list above for details). The known range of *Hypoponera viri* is extended northwards, while those of *Holcoponera mina* and *Neocerapachys neotropicus* Weber, 1939 are extended southwards and *Brachymyrmex bruchi* Forel, 1912 and *Hypoponera parva* (Forel, 1909) are extended eastwards.

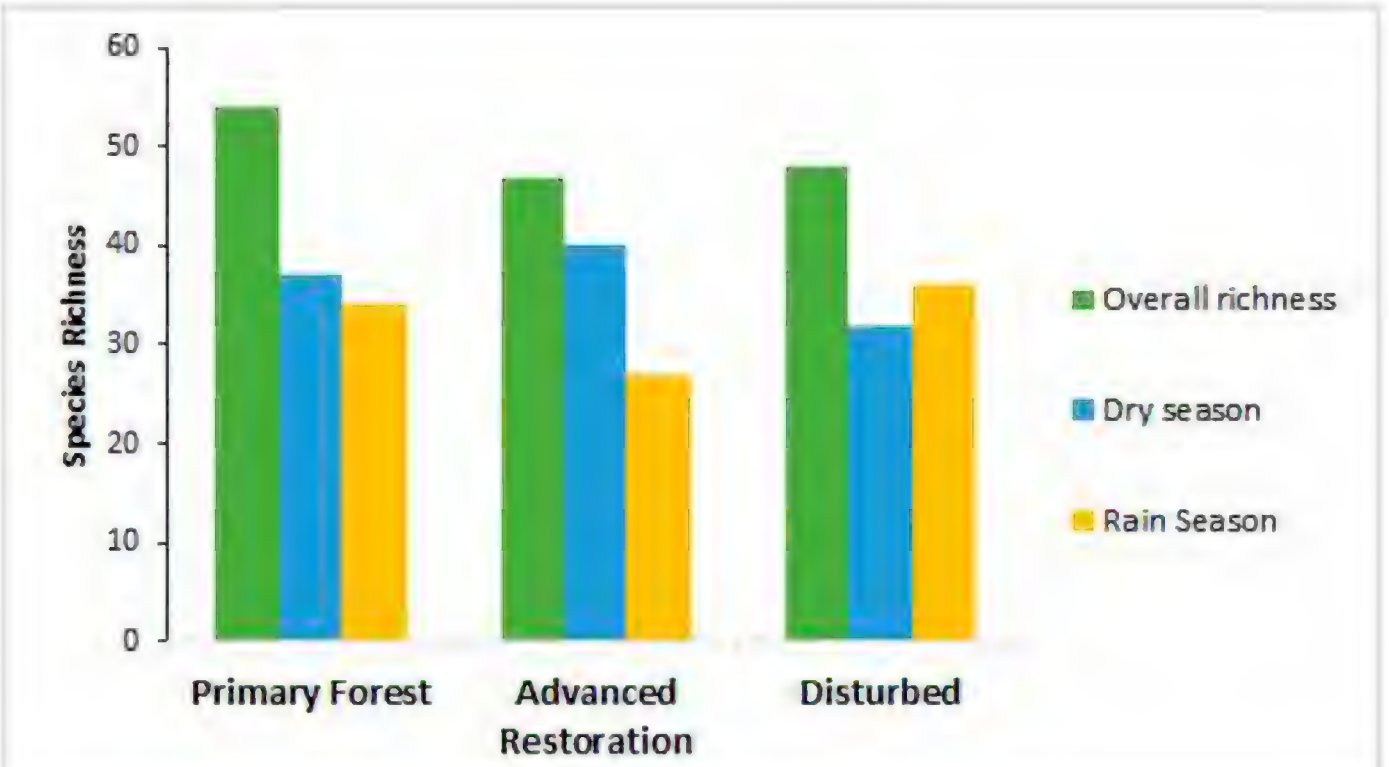

Figure 2. doi

Ant species richness in the Floresta da Tijuca sector, Parque Nacional da Tijuca. The primary forest area exhibited the highest overall species richness, with the area in advanced restoration showing the highest richness during the dry season and the disturbed area being the richest during the rainy season.

Discussion

This work contributes to understanding the myrmecofauna of the PNT more comprehensively. We focused our efforts on the Floresta da Tijuca sector, while several published studies Borgmeier (1927), Kempf (1960), Kempf (1972), Brandão (1991), Klingenberg and Brandão (2005), Araújo et al. (2007), Veiga-Ferreira et al. (2010), Orsolon-Souza et al. (2011), Vargas et al. (2013), Silva and Brandão (2014), Santos et al. (2019)(Borgmeier 1927, Kempf 1960, Kempf 1972, Brandão 1991, Klingenberg and Brandão 2005, Araújo et al. 2007, Veiga-Ferreira et al. 2010, Orsolon-Souza et al. 2011, Vargas et al. 2013, Silva and Brandão 2020, Santos et al. 2019 and Silva et al. 2022) aimed at different parts of the Serra da Carioca sector, where urban attractions, such as the Parque Lage, Rio de Janeiro Botanical Garden and Christ the Redeemer, are located. The species richness in the Serra da Carioca sector is similar to what was

observed in this study, with an average of approximately 80 species. However, despite sharing some species with the Floresta da Tijuca sector, the composition of species recorded from Serra da Carioca is slightly different. One factor that can contribute to this difference is the vegetation structure and stability of communities, as areas in the Serra da Carioca sector can suffer more direct impacts from urbanisation (i.e. pollution, fires and deforestation). Throughout the history of the PNT, these areas have undergone modifications that have certainly impacted the local fauna (i.e. locally extinct species, introduced opportunistic species, removed native forest) (Mulinge 2023). Forest cover, regardless of the stage of preservation, is a factor that has a great influence on ant abundance and diversity (Martins et al. 2022), due to its role in establishing interactions and ecological services that are fundamental to the balance of associated ecosystems (Freitas et al. 2006 and Martins et al. 2022).

The majority of species in the Floresta da Tijuca sector belong to the generalist predator functional group, according to Koch et al. (2019). This suggests that they have high ecological adaptability, enabling them to survive in the three different vegetation conditions that were studied. This is particularly true for species such as *Labidus praedator* and *Wasmannia auropunctata*, which are good indicators of environments influenced by human activity or undergoing restoration. These species can tolerate ecological disturbances and adapt to peri-urban environments where they can commonly be found (Orivel et al. 2009, Rosumek 2017, Tibcherani et al. 2018 and Santos et al. 2019).Orivel et al. 2009, Rosumek 2017, Tibcherani et al. 2018Santos et al. 2019

The many new records and distribution expansions that we discovered during this study, in different levels (for the sector, the PNT, Rio de Janeiro or even the Atlantic Forest), highlight the importance of establishing and effectively managing protected areas in cities and how inventories in such areas can decrease some of the main biodiversity knowledge shortfalls that hinder effective conservation actions (Agosti et al. 2000, Hortal et al. 2015, Borowiec 2016, Janicki et al. 2016, Guénard 2017 and Silva et al. 2022). Our work also increases the ant species richness recorded from the PNT by more than 25% and demonstrates how important this protected area is in conserving a diverse myrmecofauna and probably also other groups of terrestrial invertebrates.

Conclusion

This work contributes to our understanding of the ant population in the study area and the PNT as a whole. Many of the species we identified had never been documented in the Floresta da Tijuca sector or the PNT. Additionally, a few species are herein reported from the State of Rio de Janeiro for the first time and one from the Atlantic Forest. However, most terrestrial invertebrates in this protected area have not been thoroughly studied. It is crucial to make new efforts to study the invertebrate fauna in the region, focusing especially on discovering primary biodiversity data and applying it in conservation planning.

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Author contributions

MMS collected, identified specimens and wrote the manuscript. AJMN collected, identified specimens and revised the manuscript. FFFM wrote and revised the manuscript.

References

- Agosti D, Majer J, Alonso L, Schultz T (2000) Ants: standard methods for measuring and monitoring biodiversity. 1. Smithsonian Institution, Washington, 280 pp.
- Albuquerque LD, Brandão CRF (2009) A revision of the Neotropical Solenopsidini ant genus *Oxyepoecus* Santschi, 1926 (Hymenoptera: Formicidae: Myrmicinae). 2. Final. Key for species and revision of the *Rastratus* species-group. Papéis Avulsos de Zoologia 49 (23): 289-309. https://doi.org/10.1590/S0031-10492009002300001
- Apolinário LdCMH, Almeida ÂAd, Queiroz JM, Vargas AB, Almeida FS (2019) Diversity and guilds of ants in different land-use systems in Rio de Janeiro State, Brazil. Floresta e Ambiente 26 (4). https://doi.org/10.1590/2179-8087.115217
- Araújo MS, Mayhé-Nunes AJ, Queiroz JM (2007) Diversidade de formigas do estado do Rio de Janeiro (Hymenoptera: Formicidae). Biológico 69: 285-28.
- Araujo PC, Avelar AS (2018) Uma abordagem multiescalar das alterações do uso do solo na Floresta da Tijuca, Rio de Janeiro. Cadernos de Geografia 37: 71-79. https://doi.org/10.14195/0871-1623_37_6
- Baccaro FB, Feitosa RM, Fernandez F, Fernandes IO, Izzo TJ, Souza JLP, Solar R (2015) Guia para os gêneros de formigas do Brasil. Editora INPA, Manaus, 388 pp. [ISBN 978-85-211-0152-9] https://doi.org/10.5281/zenodo.32912
- Bihn J, Verhaagh M, Brändle M, Brandl R (2008) Do secondary forests act as refuges for old growth forest animals? Recovery of ant diversity in the Atlantic forest of Brazil. Biological Conservation 141 (3): 733-743. https://doi.org/10.1016/j.biocon.2007.12.028
- Bolton B (2000) The ant tribe Dacetini. Memoirs of the American Entomological Institute 65: 1-1028.
- Bolton B (2024) https://antcat.org. https://antcat.org.. Accessed on: 2024-2-06.
- Borgmeier T (1927) Algumas novas formigas brasileiras. Archivos do Museu Nacional (Rio de Janeiro) 29: 57-65.

- Borowiec M (2016) Generic revision of the ant subfamily Dorylinae (Hymenoptera, Formicidae). ZooKeys 608: 1-280. https://doi.org/10.3897/zookeys.608.9427
- Brandão C (1990) Systematic revision of the neotropical ant genus *Megalomyrmex* Forel (Hymenoptera: Formicidae: Myrmicinae), with the description of thirteen new species. Arquivos de Zoologia 31 (5): 411-481. https://doi.org/10.11606/issn.2176-7793.v31i5p1-91
- Brandão C (1991) Adendos ao catálogo abreviado das formigas da região Neotropical (Hymenoptera: Formicidae). Revista Brasileira de Entomologia 35: 319-412.
- Brown WLJ, Kempf WW (1960) A world revision of the ant tribe Basicerotini (Hym. Formicidae). Studia Entomologica 3 (1-4): 161-250.
- Camacho GP, Franco W, Feitosa RM (2020) Additions to the taxonomy of *Gnamptogenys* Roger (Hymenoptera: Formicidae: Ectatomminae) with an updated key to the New World species. Zootaxa 4747 (3). https://doi.org/10.11646/zootaxa.4747.3.2
- Carlucci MB, Marcilio-Silva V, Torezan JM (2021) The southern Atlantic Forest: Use, degradation, and perspectives for conservation. The Atlantic Forest91-111. https://doi.org/10.1007/978-3-030-55322-7_5
- de Oliveira MV, de Franca ECB, Feitosa RM, Correia MEF, Queiroz JM (2018) Ninhos de *Atta sexdens* (Hymenoptera: Formicidae) podem afetar a estrutura da assembleia de artropodes do solo na Mata Atlantica? Iheringia, Serie Zoologia 108: 1-8. https://doi.org/10.1590/1678-4766e2018009
- Elizalde L, Arbetman M, Arnan X, Eggleton P, Leal I, Lescano MN, Saez A, Werenkraut V, Pirk G (2020) The ecosystem services provided by social insects: traits, management tools and knowledge gaps. Biological Reviews 95 (5): 1418-1441. https://doi.org/10.1111/brv.12616
- Feitosa R (2011) Revisao taxonomica e análise filogenética de Heteroponerinae (Hymenoptera, Formicidae). Universidade de São Paulo, Faculdade de Filosofia, Ciências e Letras de Ribeirao Preto, Ribeirão Preto, 297 pp.
- Feitosa R, Camacho G, Silva TR, Ulysséa M, Ladino N, Oliveira A, Albuquerque E, Schmidt F, Ribas C, Nogueira A, Baccaro F, Queiroz AM, Dáttilo W, Silva R, Santos J, Rabello A, Morini M, Quinet Y, Del-Claro K, Harada A, Carvalho K, Sobrinho T, Moraes A, Vargas A, Torezan-Silingardi HM, Souza J, Marques T, Izzo T, Lange D, Santos I, Nahas L, Paolucci L, Soares S, Costa-Milanez C, Diehl-Fleig E, Campos RF, Solar R, Frizzo T, Darocha W (2022) Ants of Brazil: an overview based on 50 years of diversity studies. Systematics and Biodiversity 20 (1): 1-27. https://doi.org/10.1080/14772000.2022.2089268
- Feitosa RM, Brandão R (2008) A taxonomic revision of the Neotropical myrmicine ant genus *Lachnomyrmex* Wheeler (Hymenoptera: Formicidae). Zootaxa 1890: 1-49.
- Feitosa RM, Prada-Achiardi FC (2019) Subfamilia Ectatomminae. Capítulo 22. In: Fernández F, Guerrero RJ, Delsinne T (Eds) Hormigas de Colombia. Universidad Nacional de Colombia, Bogotá, 659-679 pp.
- Fernández F, Delsinne T, Arias-Penna TM (2019) Subfamilia Amblyoponinae. In: Fernández F, Guerrero RJ, Delsinne T (Eds) Hormigas de Colombia. Universidad Nacional de Colombia, Bogotá, 1198 pp. [ISBN 978-958-783-766-7].
- Forti LC, Andrade APP, da Silva Camargo R, Mota Filho TMM, Scudillio TT, Zanuncio JC, Sousa KKA, Caldato N (2022) Taxonomic revision of the leaf-cutting ant *Acromyrmex subterraneus* (Forel, 1893). International Journal of Tropical Insect Science 42 (4): 2897-2908. https://doi.org/10.1007/s42690-022-00815-5

- Freitas SR, Neves CL, Chernicharo P (2006) Tijuca National Park: two pioneering restorationist initiatives in Atlantic forest in southeastern Brazil. Brazilian Journal of Biology 66 (4): 975-982. https://doi.org/10.1590/s1519-69842006000600004
- Galvis JP, Fenández F (2009) Ants of Colombia X. *Acanthognathus* with the description of a new species (Hymenoptera: Formicidae). Revista Colombiana de Entomología 35 (2): 245-249. https://doi.org/10.25100/socolen.v35i2.9226
- Garcia JM, Bordignon AdM, Gonzaga GdS, Torezan JMD (2020) Tree seedling responses to leaf-cutting ants herbivory in Atlantic Forest restoration sites. Biotropica 52 (5): 884-895. https://doi.org/10.1111/btp.12808
- Gomes D, Almeida F, Vargas A, Queiroz J (2013) Resposta da assembleia de formigas na interface solo-serapilheira a um gradiente de alteração ambiental. Iheringia. Série Zoologia 103 (2): 104-109. https://doi.org/10.1590/s0073-47212013000200004
- Gonçalves CR (1961) O genero *Acromyrmex* no Brasil (Hym. Formicidae). Studia Entomologica 4: 113-180.
- Guénard B (2017) The Global Ant Biodiversity Informatics (GABI) database: synthesizing data on thegeographic distribution of ant species (Hymenoptera: Formicidae). Myrmecological News 24: 83-89. https://doi.org/10.25849/myrmecol.news_024:083
- Hölldobler B, Wilson EO (1990) The Ants. Harvard University Press, Cambridge, xii + 732 pp. https://doi.org/10.1007/978-3-662-10306-7
- Hortal J, de Bello F, Diniz-Filho J, Lewinsohn T, Lobo J, Ladle R (2015) Seven shortfalls that beset large-scale knowledge of biodiversity. Annual Review of Ecology, Evolution, and Systematics 46 (1): 523-549. https://doi.org/10.1146/annurev-ecolsys-112414-054400
- Janicki J, Narula N, Ziegler M, Guénard B, Economo E (2016) Visualizing and interacting with large-volume biodiversity data using client–server web-mapping applications: The design and implementation of antmaps.org. Ecological Informatics 32: 185-193. https://doi.org/10.1016/j.ecoinf.2016.02.006
- Ješovnik A, Schultz T (2017) Revision of the fungus-farming ant genus *Sericomyrmex* Mayr (Hymenoptera, Formicidae, Myrmicinae). ZooKeys 670: 1-109. https://doi.org/10.3897/zookeys.670.11839
- Kass J, Guénard B, Dudley K, Jenkins C, Azuma F, Fisher B, Parr C, Gibb H, Longino J, Ward P, Chao A, Lubertazzi D, Weiser M, Jetz W, Guralnick R, Blatrix R, Lauriers JD, Donoso D, Georgiadis C, Gomez K, Hawkes P, Johnson R, Lattke J, MacGown J, Mackay W, Robson S, Sanders N, Dunn R, Economo E (2022) The global distribution of known and undiscovered ant biodiversity. Science Advances 8 (31). https://doi.org/10.1126/sciadv.abp9908
- Kempf WW (1960) Miscellaneous studies on Neotropical ants (Hymenoptera, Formicidae). Studia Entomologica 3: 417-466.
- Kempf WW (1962) Retoques à classificação das formigas neotropicais do gênero *Heteroponera* Mayr (Hym., Formicidae). Papeis Avulsos de Zoologia (São Paulo) 15: 29-47. https://doi.org/10.11606/0031-1049.1962.15.p29-47
- Kempf WW (1966) A revision of the Neotropical fungus-growing ants of the genus *Cyphomyrmex* Mayr. Part II: Group of rimosus (Spinola) (Hym., Formicidae). Studia Entomologica 8: 161-200.
- Kempf WW (1972) Catálogo abreviado das formigas da região neotropical. Studia Entomologica 15: 3-344.
- Klingenberg C, Brandão C (2005) The type specimens of fungus growing ants, Attini (Hymenoptera, Formicidae, Myrmicinae) deposited in the Museu de Zoologia da

Universidade de São Paulo, Brazil. Papéis Avulsos de Zoologia (São Paulo) 45 (4). https://doi.org/10.1590/s0031-10492005000400001

- Koch EBA, Santos JRMd, Nascimento IC, Delabie JHC (2019) Comparative evaluation of taxonomic and functional diversities of leaf-litter ants of the Brazilian Atlantic Forest. TURKISH JOURNAL OF ZOOLOGY 43 (5): 437-456. https://doi.org/10.3906/zoo-1811-7
- LaPolla JS (2004) *Acropyga* (Hymenoptera: Formicidae) of the world. Contributions of the American Entomological Institute 33 (3): 1-130.
- Lasmar C, Ribas C, Louzada J, Queiroz AM, Feitosa R, Imata MG, Alves G, Nascimento G, Neves F, Domingos D (2020) Disentangling elevational and vegetational effects on ant diversity patterns. Acta Oecologica 102 https://doi.org/10.1016/j.actao.2019.103489
- Lattke JE (1997) Revisión del género *Apterostigma* Mayr (Hymenoptera: Formicidae). Arquivos de Zoologia São Paulo 34 (5): 121-221. https://doi.org/10.11606/issn.2176-7793.v34i5p121-221
- Lattke JE (2011) Revision of the New World species of the genus *Leptogenys* Roger (Insecta: Hymenoptera: Formicidae: Ponerinae). Arthropod Systematics & Phylogeny 69 (3): 127-264. https://doi.org/10.3897/asp.69.e31744
- Longino JT, Fernández F (2007) Taxonomic review of the genus *Wasmannia*. Memoirs of the American Entomological Institute 80: 271-289.
- Longino JT (2013) A revision of the ant genus *Octostruma* Forel 1912 (Hymenoptera, Formicidae). Zootaxa 3699 (1). https://doi.org/10.11646/zootaxa.3699.1.1
- Lopes D, Lopes J, Nascimento ICd, Delabie J (2010) Diversidade de formigas epigéicas (Hymenoptera, Formicidae) em três ambientes no Parque Estadual Mata dos Godoy, Londrina, Paraná. Iheringia. Série Zoologia 100 (1): 84-90. https://doi.org/10.1590/s0073-47212010000100012
- Mackay W, Mackay E (2010) The systematics and biology of the New World ants of the genus *Pachycondyla* (Hymenoptera: Formicidae). Edwin Mellin Press, 642 pp. https://doi.org/10.13140/2.1.4271.8726
- Martins IS, Ortega JCG, Guerra V, Costa MMS, Martello F, Schmidt FA (2022) Ant taxonomic and functional beta-diversity respond differently to changes in forest cover and spatial distance. Basic and Applied Ecology 60: 89-102. https://doi.org/10.1016/j.baae.2022.02.008
- Ministério do Meio Ambiente (2008) I Plano de Manejo: Parque Nacional da Tijuca. Instituto do Meio Ambiente, Brasília, 1079 pp. [In Portuguese].
- Miranda FSM, Avelar AS, et al. (2021) Efeitos da dinâmica pluviométrica na interceptação e precipitação interna em uma encosta com Floresta Atlântica no Parque Nacional da Tijuca, RJ, Brasil. Revista Brasileira de Geografia Física 14 (4): 2114-2130. [In Portuguese]. https://doi.org/10.26848/rbgf.v14.4.p2114-2130
- Mittelman P, Landim AR, Genes L, Assis A, Starling-Manne C, Leonardo P, Fernandez FS, Guimarães Jr P, Pires A (2021) Trophic rewilding benefits a tropical community through direct and indirect network effects. Ecography 2022 (4): 1-11. https://doi.org/10.1111/ecog.05838
- Montine PSM, Viana NF, Almeida FS, Dátillo WFdC, Santanna AS, Martins L, Vargas AB (2014) Seasonality of epigaeic ant communities in a Brazilian Atlantic rainforest. Sociobiology 61 (2): 178-183. https://doi.org/10.13102/sociobiology.v61i2.178-183
- Mulinge J (2023) Effects of environmental change on species diversity. International Journal of Biology 3 (1): 43-53. https://doi.org/10.47604/ijb.2014

- Orivel J, Grangier J, Foucaud J, Le Breton J, Andrès F, Jourdan H, Delabie JC, Fournier D, Cerdan P, Facon B, Estoup A, Dejean A (2009) Ecologically heterogeneous populations of the invasive ant *Wasmannia auropunctata* within its native and introduced ranges. Ecological Entomology 34 (4): 504-512. https://doi.org/10.1111/j.1365-2311.2009.01096.x
- Orsolon-Souza G, Esbérard CEL, Mayhé-Nunes AJ, Vargas AB, Veiga-Ferreira S, Folly-Ramos E (2011) Comparison between Winkler's extractor and pitfall traps to estimate leaf litter ants richness (Formicidae) at a rainforest site in southest Brazil. Brazilian Journal of Biology 71 (4): 873-880. https://doi.org/10.1590/S1519-69842011000500008
- Ortiz-Sepulveda C, Van Bocxlaer B, Meneses A, Fernández F (2019) Molecular and morphological recognition of species boundaries in the neglected ant genus *Brachymyrmex* (Hymenoptera: Formicidae): toward a taxonomic revision. Organisms Diversity & Evolution 19 (3): 447-542. https://doi.org/10.1007/s13127-019-00406-2
- Probst RS, Brandão CRF (2022) A taxonomic revision of the dirt ants, *Basiceros* Schulz, 1906 (Hymenoptera, Formicidae). Zootaxa 5149 (1): 1-75. https://doi.org/10.11646/zootaxa.5149.1.1
- Rezende CL, Scarano FR, Assad ED, Joly CA, Metzger JP, Strassburg BB, Tabarelli M, Fonseca GA, Mittermeier RA (2018) From hotspot to hopespot: An opportunity for the Brazilian Atlantic Forest. Perspectives in Ecology and Conservation 16 (4): 208-214. https://doi.org/10.1016/j.pecon.2018.10.002
- Ribas C, Campos RF, Schmidt F, Solar RC (2012) Ants as indicators in Brazil: A review with suggestions to improve the use of ants in environmental monitoring programs. Psyche: A Journal of Entomology 2012: 1-23. https://doi.org/10.1155/2012/636749
- Rosumek FB (2017) Natural History of Ants: What We (do not) Know About Trophic and Temporal Niches of Neotropical Species. Sociobiology 64 (3). https://doi.org/10.13102/sociobiology.v64i3.1623
- Salinas PJ (2010) Catalogue of the ants of the Tachira State, Venezuela, with notes on their biodiversity, biogeography and ecology (Hymenoptera: Formicidae: Amblyioponinae, Ponerinae, Proceratiinae, Myrmicinae, Ecitoninae, Formicinae, Pseudomyrmecinae, Dolichoderinae). Boletin de la SEA 47: 315-328.
- Santos MN, Delabie JC, Queiroz J (2019) Biodiversity conservation in urban parks: a study of ground-dwelling ants (Hymenoptera: Formicidae) in Rio de Janeiro City. Urban Ecosystems 22 (5): 927-942. https://doi.org/10.1007/s11252-019-00872-8
- Santschi F (1937) Note sur *Acromyrmex subterraneus* Forel. Revista de Entomologia 7: 230-233.
- Silva CR, Brandão CB (2020) Análise da decomposição da serapilheira na Floresta da Tijuca - RJ através do uso de litter bags. Humboldt - Revista de Geografia Física e Meio Ambiente 1 (1): 1-18.
- Silva R, Brandão C (2014) Ecosystem-wide morphological structure of leaf-litter ant communities along a tropical latitudinal gradient. PLoS ONE 9 (3). https://doi.org/10.1371/journal.pone.0093049
- Silva RR, Martello F, Feitosa RM, Silva OGM, et al. (2022) ATLANTIC ANTS: a data set of ants in Atlantic Forests of South America. Ecology 103 (2). https://doi.org/10.1002/ecy.3580
- Sosa-Calvo J, Schultz TR, LaPolla JS (2010) A review of the dacetine ants of Guyana (Formicidae: Myrmicinae). Journal of Hymenoptera Research 19 (1): 12-43.

- Teixeira GA, Barros LAC, Lopes DM, de Aguiar HJAC (2019) Cytogenetic variability in four species of *Gnamptogenys* Roger, 1863 (Formicidae: Ectatomminae) showing chromosomal polymorphisms, species complex, and cryptic species. Protoplasma 257 (2): 549-560. https://doi.org/10.1007/s00709-019-01451-6
- Tibcherani M, Nacagava VAF, Aranda R, Mello RL (2018) Review of ants (Hymenoptera: Formicidae) as bioindicators in the Brazilian savanna. Sociobiology 65 (2). https://doi.org/10.13102/sociobiology.v65i2.2048
- Varassin IG, Agostini K, Wolowski M, Freitas L (2021) Pollination systems in the Atlantic Forest: characterisation, threats, and opportunities. In: Marques MCM, Grelle CEV (Eds) The Atlantic Forest. Springer, Cham, 325–344 pp. https://doi.org/10.1007/978-3-030-55322-7_15
- Vargas AB, Mayhé Nunes AJ, Queiroz JM (2013) Riqueza e composição de formigas de serapilheira na Reserva Florestal da Vista Chinesa, Rio de Janeiro, Brasil. Cadernos UniFOA 8 (1): 85-94.
- Veiga-Ferreira S, Orsolon-Souza G, Mayhé-Nunes AJ (2010) Hymenoptera, Formicidae Latreille, 1809: new records for Atlantic Forest in the state of Rio de Janeiro. Check List 6 (3). https://doi.org/10.15560/6.3.442
- Ward PS (1989) Systematic studies on Pseudomyrmecine ants: Revision of the *Pseudomyrmex oculatus* and *P. subtilissimus* species groups with taxonomic comments on other species. Questiones Entomologicae 25: 393-468.
- Watkins JFI (1976) The identification and distribution of New World army ants (Dorylinae: Formicidae). Baylor University Press, Waco, Texas, 102 pp.
- Weber NA (1944) The neotropical coccid-tending ants of the genus *Acropyga* Roger. Annals of the Entomological Society of America 37: 89-12. https://doi.org/10.1093/aesa/37.1.89
- Wild AL (2007) Taxonomic revision of the ant genus *Linepithema* (Hymenoptera: Formicidae). University of California Publications in Entomology 126: 1-151.
- Wilson O, Mayle F, Walters R, Lingner D, Vibrans A (2021) Floristic change in Brazil's southern Atlantic Forest biodiversity hotspot: From the Last Glacial Maximum to the late 21st Century. Quaternary Science Reviews 264 https://doi.org/10.1016/j.quascirev.2021.107005